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**Shells of Land and Water.**<sup>1</sup>—This work is a diversion from the usual type of conchological publications, the author endeavors to popularize the study of the mollusks by a narrative. A quartette consisting of a professor and three students, take various trips to the “homes” of the land, fresh-water and marine species; these trips are supplemented by frequent visits to the museum, thus in a general way all of the more important groups are studied. Their first excursion is to the “home” of the fresh-water clam, then a day with the snails of the pond, river and brook, followed by a visit to the museum. The homes of the land snails are next invaded and the evening is spent in the snailery. The next chapter is “how snails eat” with figures of radula, jaws, etc. To study the exotic forms the museum is again visited. In the same manner the marine forms are studied, with instructions for dredging and preserving specimens. The work closes with “some books to study” and a glossary of technical terms.

The book contains 175 pages, the illustrations in the text, of which there are upwards of 150, are excellent and well selected, while the eight colored plates are beautiful examples of the three color process; the work is also embellished by six half-tone plates from photographs showing the homes of the various mollusks. To those taking up the study of conchology as a pastime the work is admirably adapted.

C. W. J.

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#### BOTANY.

**Pfeffer's Plant Physiology.**—The completion of the second edition of Pfeffer's *Pflanzen physiologic*<sup>2</sup> is a significant event. Ten years ago Pfeffer began the revision which has just been completed. It would have been finished earlier but for the continued ill health of the author. Pfeffer's aim, as pointed out in reviews of the parts which have previously appeared,<sup>3</sup> has been to present the science as

<sup>1</sup> Baker, F. C. *Shells of Land and Water. A familiar Introduction to the Study of Mollusks.* Chicago, Mumford, 1903. Svo, xii + 262 pp., 215 figs.

<sup>2</sup> Pfeffer, W. *Pflanzenphysiologie. Handbuch der Lehre vom Stoffwechsel und Kraftwechsel in der Pflanze.* 2 te Auflage, 2 vols., Leipzig, Engelmann, 1897-1904.

<sup>3</sup> *American Naturalist*, vols. XXXII, pp. 450-1, 1898, and XXXVI, pp. 594-5, 1902.